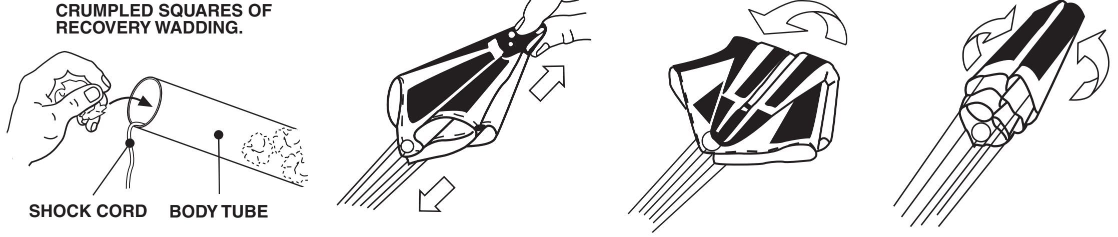
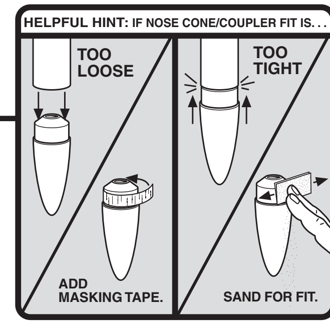
ROCKET PREFLIGHT

A. INSERT 6 TO 8 LOOSELY CRUMPLED SQUARES OF RECOVERY WADDING. **B.** SPIKE. **C.** FOLD. **D.** ROLL. **E.** WRAP LINES LOOSELY, INSERT 'CHUTE, SHOCK CORD AND NOSE CONE.



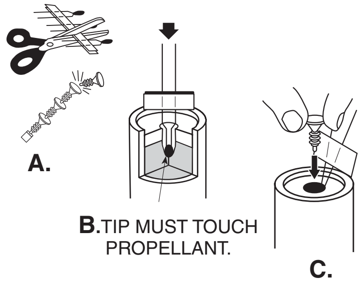


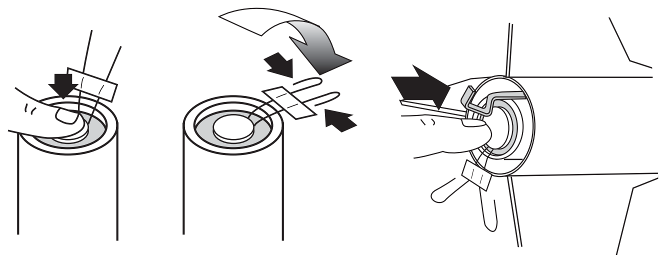
NOTE: Only Estes wadding (#302274) recommended.

ENGINE PREP

⚠ WARNING: FLAMMABLE

To avoid serious injury, read instructions & NAR Safety Code included with engines.
PREPARE YOUR ENGINE ONLY WHEN YOU ARE OUTSIDE AT THE LAUNCH SITE PREPARING TO LAUNCH!
If you do not use your prepared engine, remove the igniter before storing your engine.



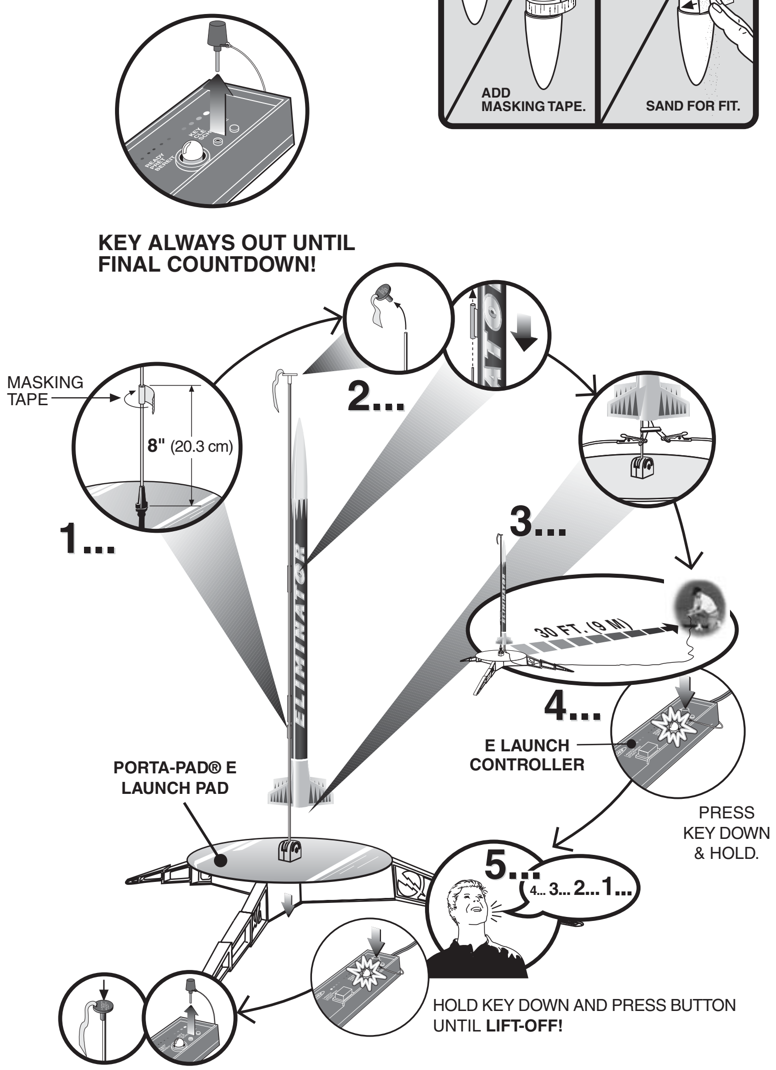


NOTE: To fly with a 'D' engine, insert Orange E to D spacer before inserting 'D' engine.

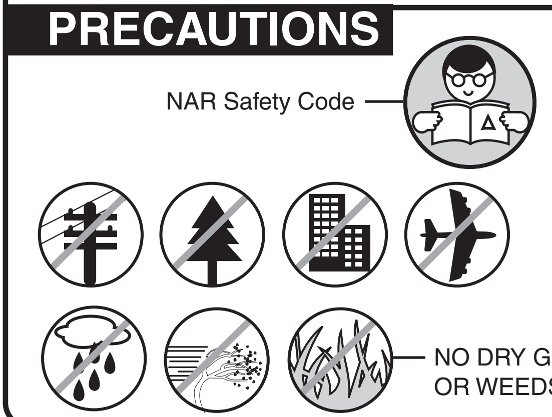
ESTES LAUNCH SUPPLIES
(Sold Separately)

- Estes® Porta-Pad® E Launch Pad (EST 2238) and E Launch Controller (EST 2230)
- Recovery Wadding (EST 302274)
- Igniters (w/ Engines)
- Igniter Plugs (w/ Engines)
- Estes® Engines: D12-5 (First Flight), D12-7, E9-6, E9-8

COUNTDOWN AND LAUNCH



PRECAUTIONS



FLYING YOUR ROCKET

Choose a large field (1000 ft. [305 m] square) free of dry weeds and brown grass. The larger the launch area, the better your chance of recovering your rocket. Football fields and playgrounds are great. Launch only with little or no wind and good visibility.

Always follow the National Association of Rocketry (NAR) SAFETY CODE.

MISFIRES

TAKE THE KEY OUT OF THE CONTROLLER. WAIT ONE MINUTE BEFORE GOING NEAR THE ROCKET! Disconnect the igniter clips and remove engine. Take the plug and igniter out of the engine. If the igniter has burned, it worked but did not ignite the engine because it was not touching the propellant inside the engine. Put a new igniter all the way inside the engine without bending it. Push the plug in place. Repeat the steps under Countdown and Launch.

ESTES®

www.estesrockets.com
Estes Industries
1295 H Street
Penrose, CO 81240

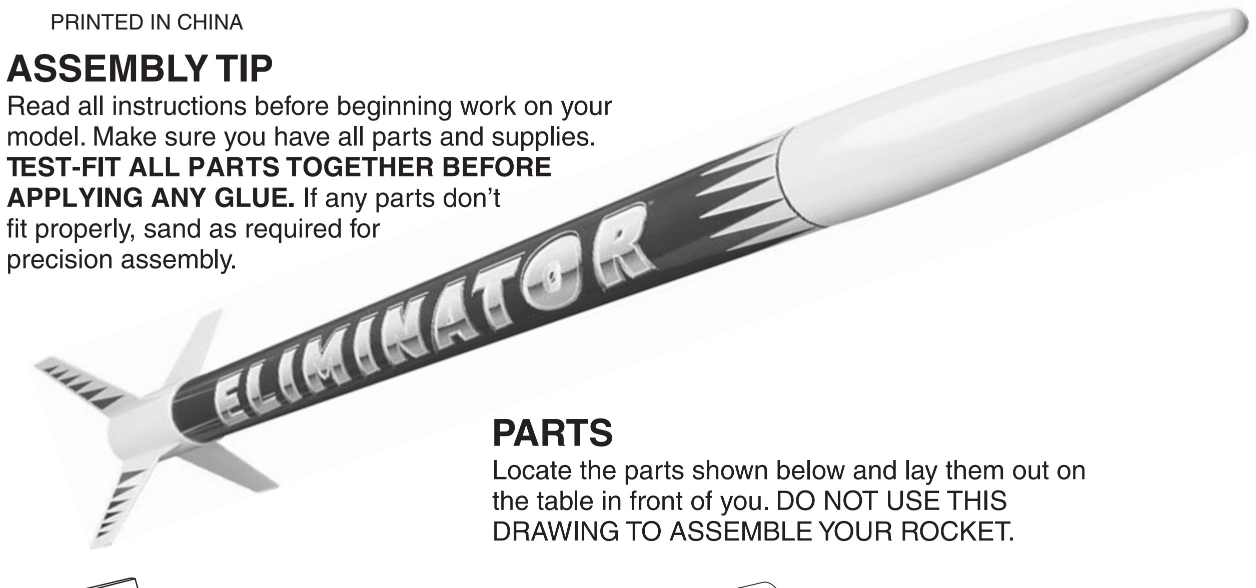
PRINTED IN CHINA

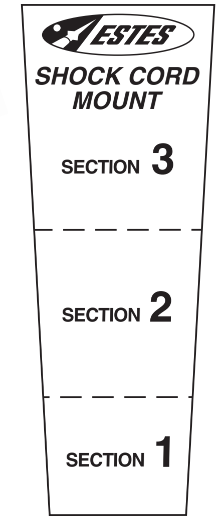
ELIMINATOR™

FLYING MODEL ROCKET KIT #1950

ASSEMBLY TIP

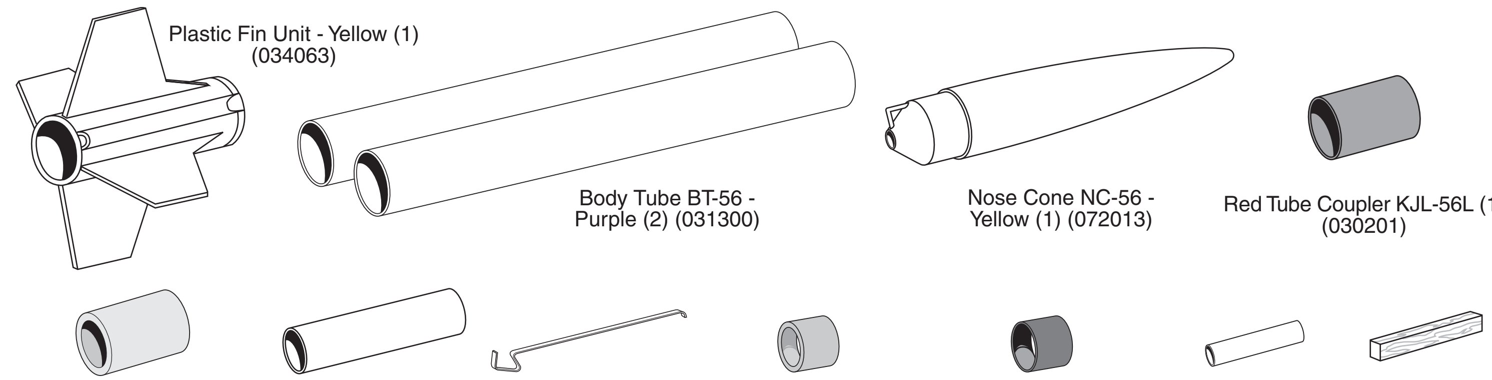
Read all instructions before beginning work on your model. Make sure you have all parts and supplies. **TEST-FIT ALL PARTS TOGETHER BEFORE APPLYING ANY GLUE.** If any parts don't fit properly, sand as required for precision assembly.



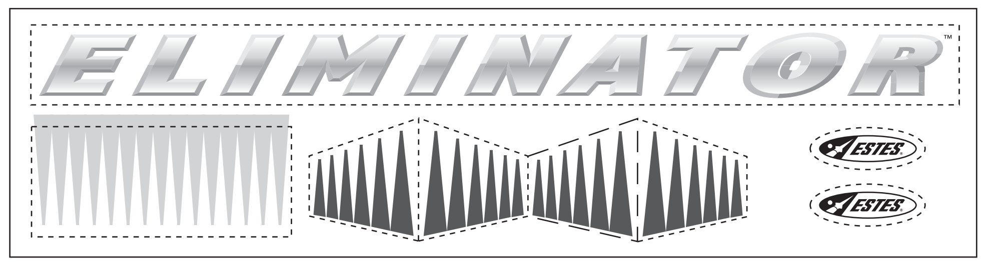


PARTS

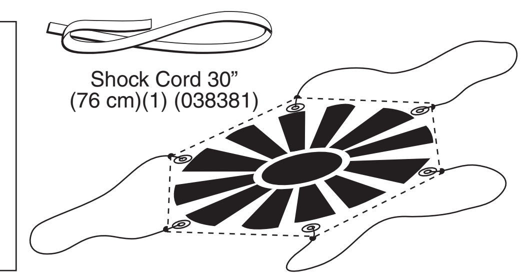
Locate the parts shown below and lay them out on the table in front of you. DO NOT USE THIS DRAWING TO ASSEMBLE YOUR ROCKET.



Plastic Fin Unit - Yellow (1) (034063)
Body Tube BT-56 - Purple (2) (031300)
Nose Cone NC-56 - Yellow (1) (072013)
Red Tube Coupler KJL-56L (1) (030201)
Green Tube Adapter - AR-100056 (1) (030135)
Engine Mount Tube - BT-1000 (1) (030463)
Engine Hook - E (1) (035022)
Orange Spacer E to D (1) (035005)
Red Engine Block - KJT-50C (1) (030174-5)
Launch Lug - 1/4" (1) (038181)
Wood Strip (1) (032096)

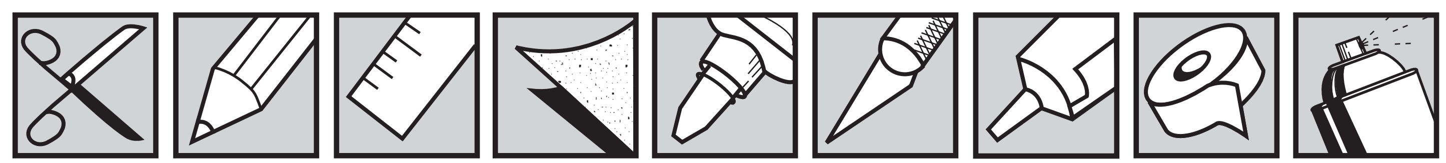


Decal Sheet (1) (037039)



Shock Cord 30" (76 cm)(1) (038381)
Assembled Parachute 24" (61 cm) (1) (035803)

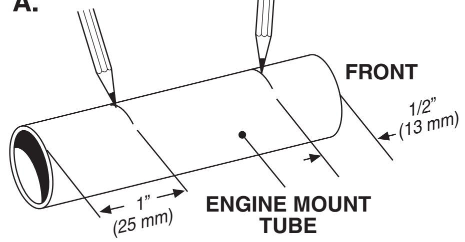
SUPPLIES In addition to the parts included in the kit you will also need:



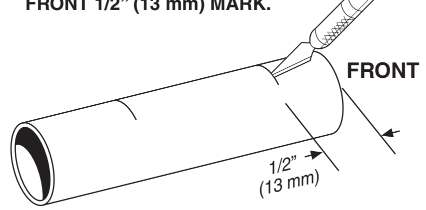
SCISSORS, PENCIL, RULER, FINE SAND PAPER (#400-600 Grit), CARPENTER'S GLUE, MODELING KNIFE, PLASTIC CEMENT, MASKING TAPE, SPRAY CLEAR COAT (OPTIONAL)

1.

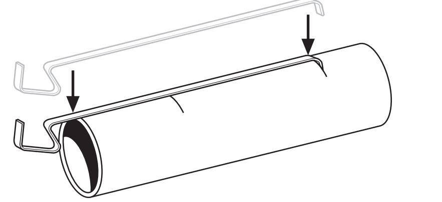
A.



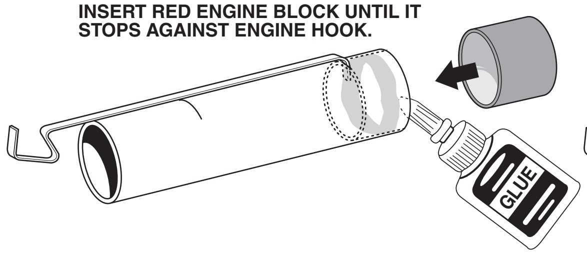
B. CUT 1/8" (3 mm) SLIT AT FRONT 1/2" (13 mm) MARK.



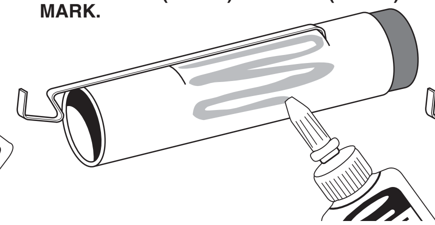
C. POSITION HOOK.



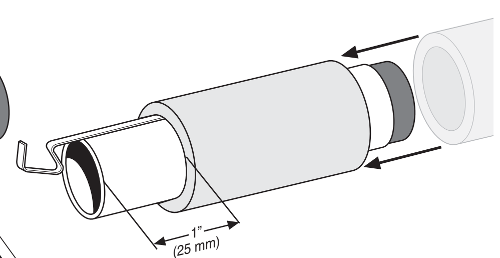
D. APPLY GLUE INSIDE ENGINE MOUNT TUBE. INSERT RED ENGINE BLOCK UNTIL IT STOPS AGAINST ENGINE HOOK.



E. TEST FIT GREEN TUBE ADAPTER BEFORE APPLYING GLUE. REMOVE PAPER FROM INSIDE ADAPTER IF NECESSARY. APPLY GLUE AROUND ENGINE MOUNT TUBE BETWEEN 1" (25 mm) AND 1/2" (13 mm) MARK.

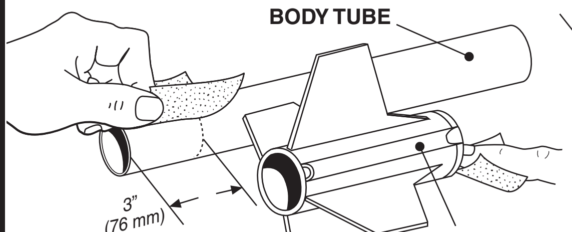


F. SLIDE GREEN ADAPTER ONTO TUBE DOWN TO 1" (25 mm) MARK.



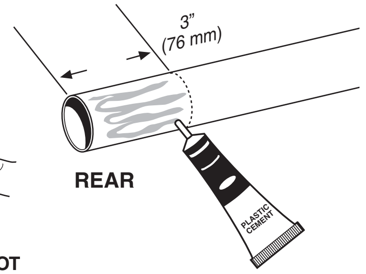
2.

A. SAND A 3" (76 mm) LENGTH AT THE REAR END OF ONE BODY TUBE AND INSIDE OF PLASTIC FIN UNIT.

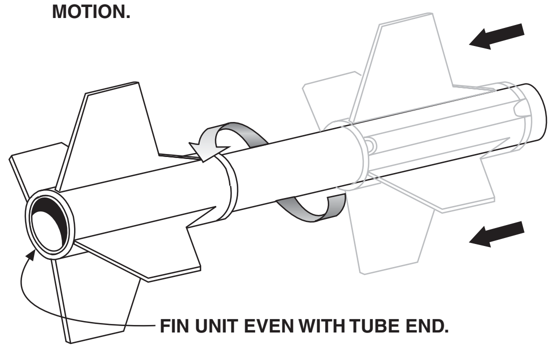


NOTE: THIS IS NOT TO BE USED AS THE LAUNCH LUG.

B. APPLY PLASTIC CEMENT TO REAR OF BODY TUBE.

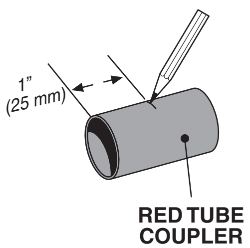


C. SLIDE FIN UNIT DOWN ONTO TUBE WITH A TWISTING MOTION.

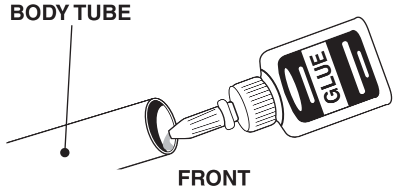


3.

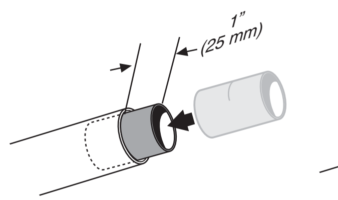
A.



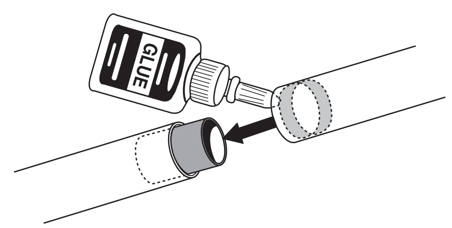
B. APPLY GLUE INSIDE FRONT END OF BODY TUBE/FIN ASSEMBLY.



C. INSERT COUPLER UP TO 1" (25 mm) MARK.

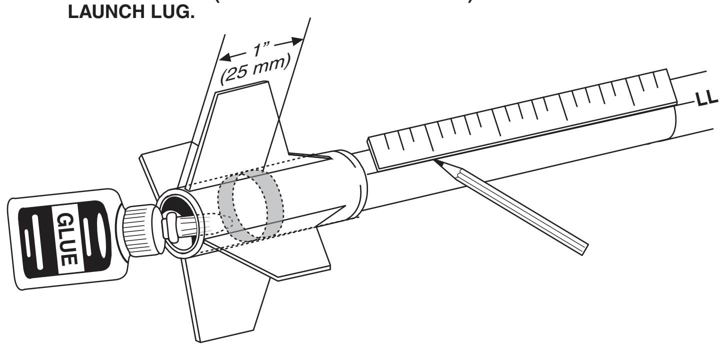


D. APPLY GLUE INSIDE SECOND BODY TUBE AND SLIDE OVER TUBE COUPLER TO JOIN TUBES.



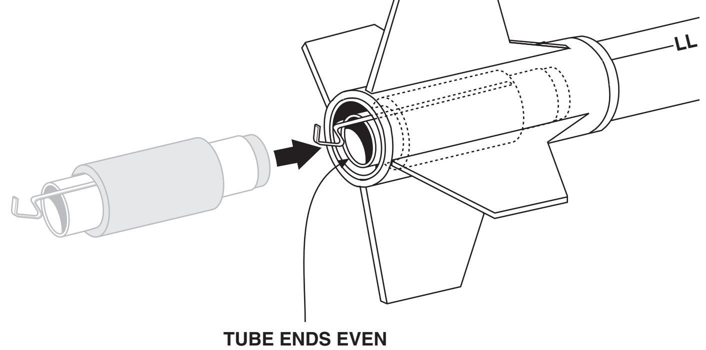
4.

A. USE STRAIGHT EDGE TO DRAW LAUNCH LUG (LL) LINE CENTERED BETWEEN FINS (ENTIRE LENGTH OF TUBES) AND OPPOSITE MOLDED LAUNCH LUG.



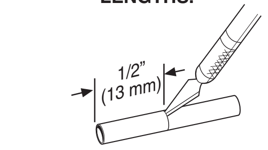
B. APPLY GLUE 1" (25 mm) INSIDE TUBE/FIN ASSEMBLY.

C. ALIGN ENGINE HOOK WITH LAUNCH LUG LINE AND INSERT ENGINE MOUNT ASSEMBLY.

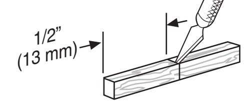


5.

A. CUT LAUNCH LUG INTO TWO EQUAL LENGTHS.

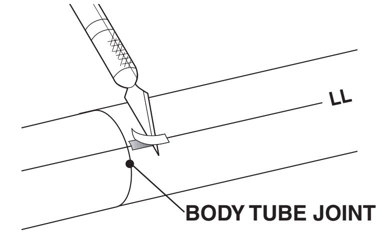


B. CUT WOOD STRIP INTO TWO EQUAL PIECES.



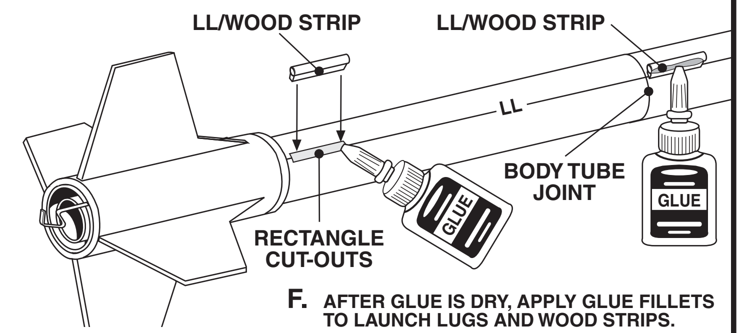
C. SCORE A 1/8" X 1/2" (3 mm X 13 mm) RECTANGLE AT BODY TUBE JOINT ON LAUNCH LUG LINE AND PEEL OFF PURPLE PAPER .

NOTE: *DO NOT PUNCTURE BODY TUBE.*



D. REPEAT STEP C AT TOP OF PLASTIC FIN UNIT ON LAUNCH LUG LINE.

E. GLUE LAUNCH LUGS TO WOOD STRIPS. ALLOW DRY TIME. GLUE LAUNCH LUG/WOOD STRIP UNITS TO RECTANGLE CUT-OUTS ON BODY TUBE.

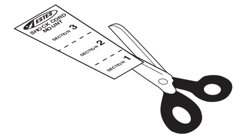


F. AFTER GLUE IS DRY, APPLY GLUE FILLETS TO LAUNCH LUGS AND WOOD STRIPS.

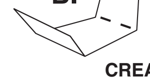
NOTE: *LAUNCH LUGS MUST BE ALIGNED FOR A PROPER LAUNCH.*

6.

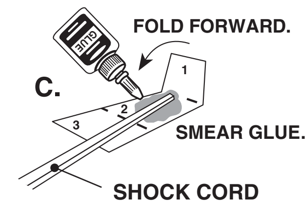
A. CUT OUT SHOCK CORD MOUNT FROM FRONT PAGE.



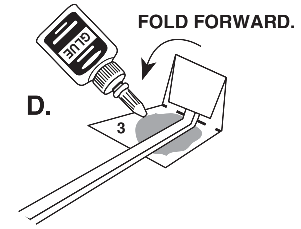
B.



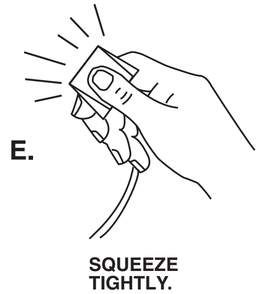
C.



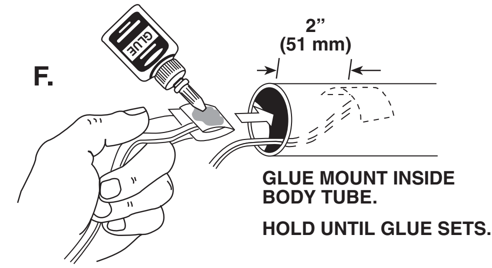
D.



E.



F.

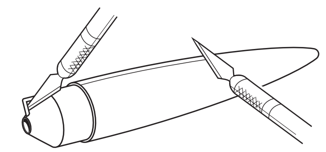




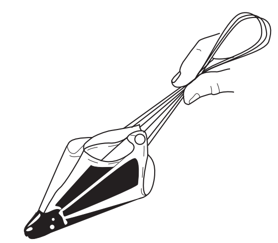
7.

A. REMOVE EXCESS FLASH FROM NOSE CONE SEAM AND EYELET.

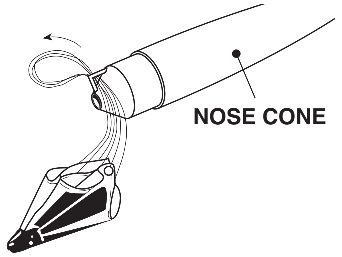
CAUTION: Do not cut off eyelet.



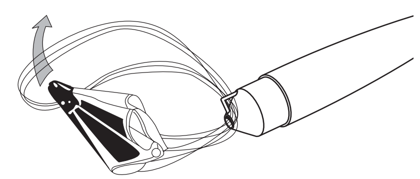
B.



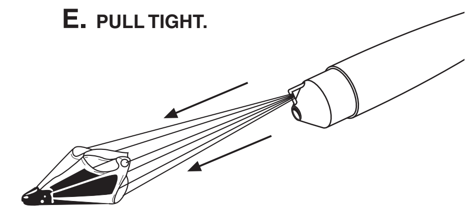
C.



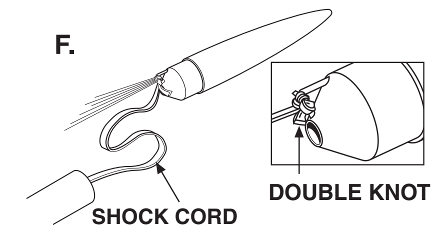
D.



E. PULL TIGHT.

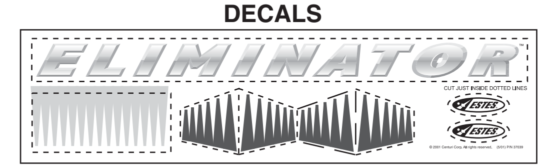


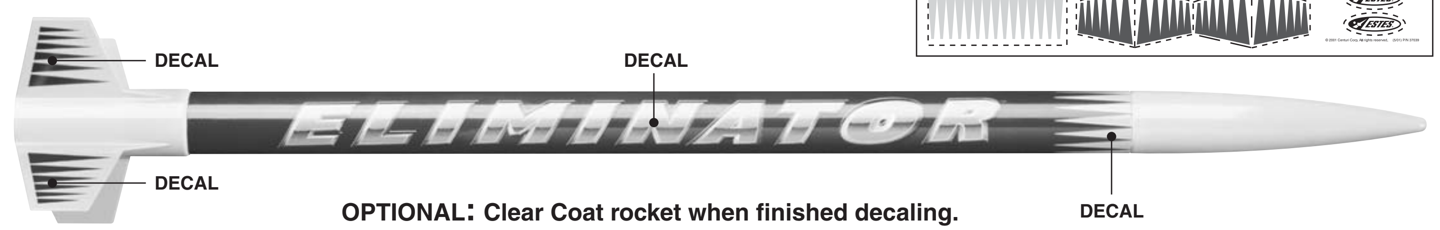
F.



FINISHING YOUR ROCKET

DECALS





OPTIONAL: Clear Coat rocket when finished decaling.